INTERNATIONAL SEARCH REPORT

Ini ional Application No
PUI/IB2004/052631

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H04B1/707					
According to	International Patent Classification (IPC) or to both national classification	ation and IPC				
B. FIELDS	SEARCHED					
Minimum do IPC 7	cumentation searched (classification system followed by classification HO4B	on symbols)				
Documental	tion searched other than minimum documentation to the extent that s	such documents are included in the fields se	earched			
Electronic d	ata base consulted during the international search (name of data base	se and, where practical, search terms used)			
EPO-Internal						
C DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category •	Citation of document, with indication, where appropriate, of the rei	evant passages	Relevant to claim No.			
A	STEINER B ET AL: "LOW COST CHANN ESTIMATION IN THE UPLINK RECEIVER MOBILE RADIO SYSTEMS AUFWANDSGUES KANALSCHAETZUNG IN DER AUFWAERTSS VON CDMA-MOBILFUNKSYSTEMEN" FREQUENZ, SCHIELE UND SCHON GMBH. DE, vol. 47, no. 11/12, 1 November 1993 (1993-11-01), page 292-298, XP000426381 ISSN: 0016-1136 cited in the application paragraphs 'SECTION!, '04.1!	OF CDMA STIGE STRECKE BERLIN,	1,2,6,7			
X Furth	ner documents are listed in the continuation of box C.	χ Patent family members are listed i	n annex.			
* Special categories of cited documents:						
consid	ent defining the general state of the art which is not ered to be of particular relevance	*T* later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention	the application but			
 "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another 		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention				
citatior "O" docume other n	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	cannot be considered to involve an involve an involve an involve document is combined with one or moments, such combination being obvious	ventive step when the ore other such docu-			
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Date of the	actual completion of the international search	Date of mailing of the international sea	rch report			
2	4 March 2005	04/04/2005				
Name and n	nalling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer				
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Ricciardi, M				

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INTERNATIONAL SEARCH REPORT

Int ional Application No
PUI/IB2004/052631

0.400=44==	MIAN DOCUMENTS CONCIDENTS TO THE	PC1/1B2004/052631			
Category *	tinuation) DOCUMENTS CONSIDERED TO BE RELEVANT ry * Cliation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.				
		TIBIOTAIN (O CIAIN NO.			
A	KLEIN A: "Data detection algorithms specially designed for the downlink of CDMA mobile radio systems" VEHICULAR TECHNOLOGY CONFERENCE, 1997, IEEE 47TH PHOENIX, AZ, USA 4-7 MAY 1997, NEW YORK, NY, USA, IEEE, US, vol. 1, 4 May 1997 (1997-05-04), pages 203-207, XP010228779 ISBN: 0-7803-3659-3 cited in the application the whole document	1-13			
A	KLEIN A ET AL: "ZERO FORCING AND MINIMUM MEAN-SQUARE-ERROR EQUALIZATION FOR MULTIUSER DETECTION IN CODE-DIVISION MULTIPLE-ACCESS CHANNELS" IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, IEEE INC. NEW YORK, US, vol. 45, no. 2, May 1996 (1996-05), pages 276-287, XP000598095 ISSN: 0018-9545 cited in the application the whole document	1-13			
Α	US 2002/110199 A1 (HAPPONEN AKI ET AL) 15 August 2002 (2002-08-15) cited in the application the whole document	1-13			
Α	US 2003/198303 A1 (TAYLOR MATTHEW A ET AL) 23 October 2003 (2003-10-23) the whole document	1-13			
Α	WO 00/05847 A (NOKIA NETWORKS OY; PIIRAINEN, OLLI; HAPPONEN, AKI) 3 February 2000 (2000-02-03) the whole document	1-13			
A	BEHESHTI S ET AL: "Noise variance in signal denoising" 2003 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING. PROCEEDINGS. (ICASSP). HONG KONG, APRIL 6 - 10, 2003, IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP), NEW YORK, NY: IEEE, US, vol. VOL. 1 OF 6, 6 April 2003 (2003-04-06), pages VI185-VI188, XP010639447 ISBN: 0-7803-7663-3 the whole document	1-13			
	-/				

INTERNATIONAL SEARCH REPORT AP11 Rec'd PC1/Pnd Appliesten AUG 2006
P... B2004/052631

		F, 102004/032031
	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KETTUNEN K: "Iterative multiuser	1-13
	receiver/decoders with enhanced variance estimation" VEHICULAR TECHNOLOGY CONFERENCE, 1999 IEEE	
	49TH HOUSTON, TX, USA 16-20 MAY 1999, PISCATAWAY, NJ, USA, IEEE, US, vol. 3, 16 May 1999 (1999-05-16), pages	
	2318-2322, XP010342275 ISBN: 0-7803-5565-2 the whole document	
	•	

INTERNATIONAL SEARCH REPORT

In anal Application No
Full iB2004/052631

	ent document n search report		Publication date		Patent family member(s)	Publication date
US 2	2002110199	A1	15-08-2002	WO AU EP JP NO	0070815 A1 4362299 A 1179239 A1 2003500897 T 20015585 A	23-11-2000 05-12-2000 13-02-2002 07-01-2003 15-11-2001
US 2	2003198303	A1	23-10-2003	WO US US	2004010572 A1 2004037202 A1 2003198305 A1	29-01-2004 26-02-2004 23-10-2003
WO C	0005847	A	03-02-2000	WO AT AU DE EP NO US	0005847 A1 270482 T 8732198 A 69824898 D1 1099328 A1 20010313 A 2003007571 A1	03-02-2000 15-07-2004 14-02-2000 05-08-2004 16-05-2001 19-03-2001 09-01-2003